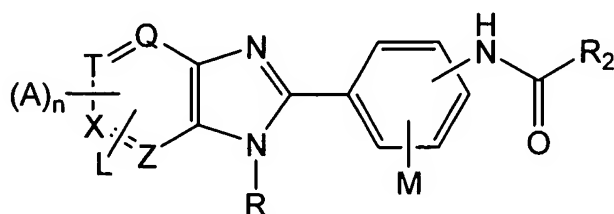
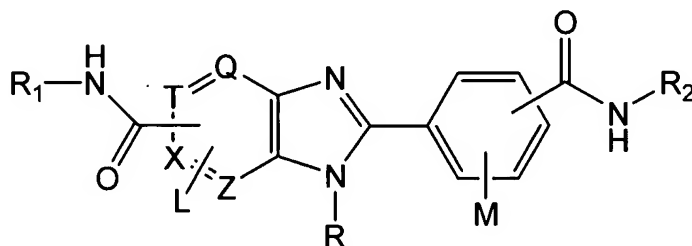


# AMENDMENTS TO THE **CLAIMS**

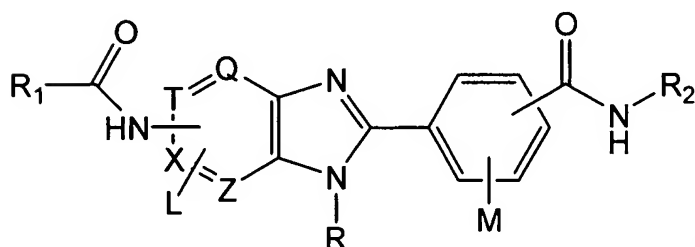
1. (Currently amended) A ~~pharmaceutical composition for treating or preventing an allergic reaction associated with increased IgE levels or inhibiting cellular proliferation in a mammal comprising any~~compound or salt thereof represented by one or more of the following compounds~~formulas~~:



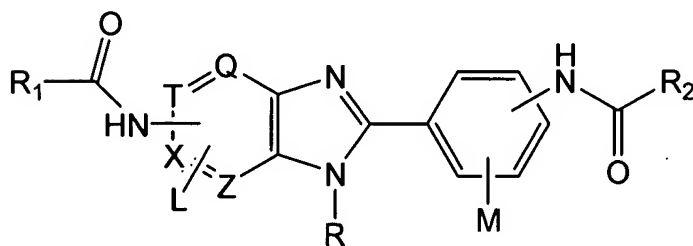
Supragenus A;



Supragenus B;



Supragenus C; and



Supragenus D;

wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein A is selected from the group consisting of H, halogen, and CONHR<sub>1</sub>;

wherein n is a number from one to four;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>1</sub>;

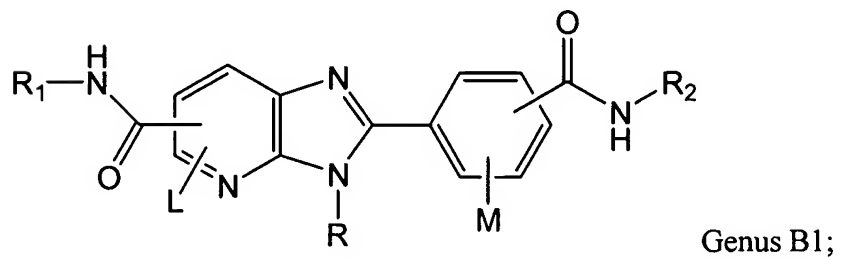
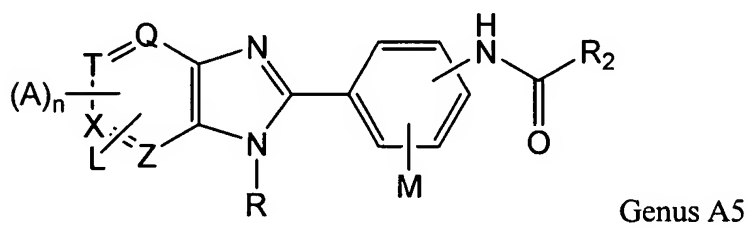
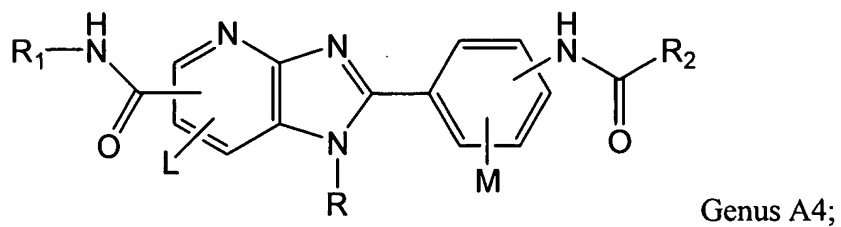
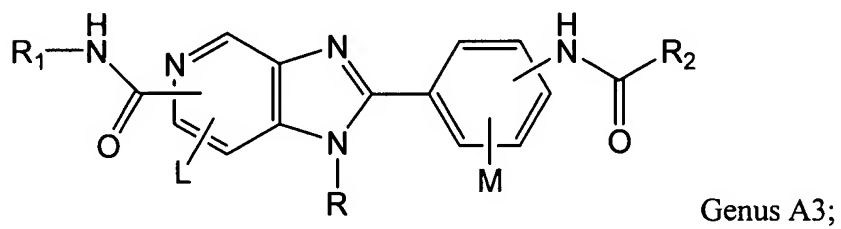
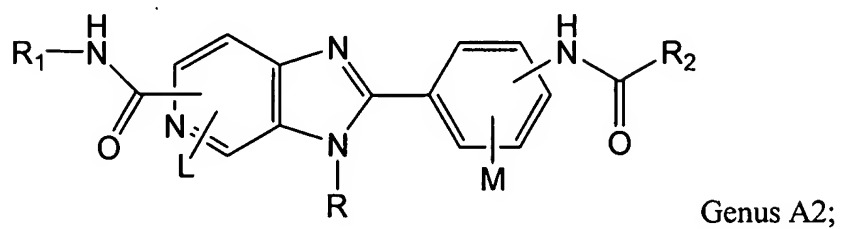
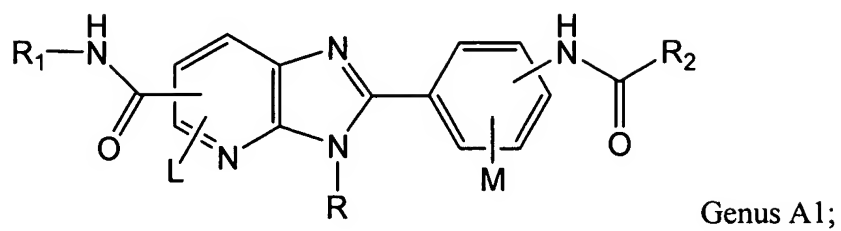
wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

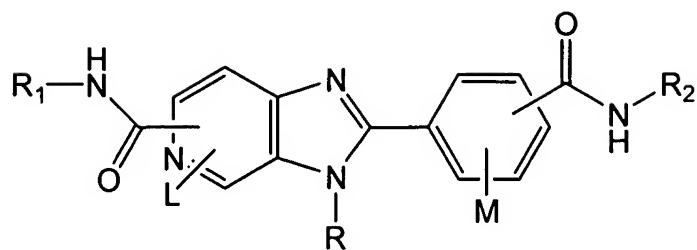
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

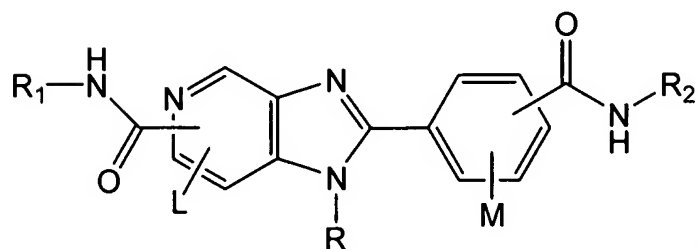
wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

2. (Currently amended) ~~A pharmaceutical composition~~ The compound or salt thereof of Claim 1, wherein the Supragenus A-D are represented by the formulas:

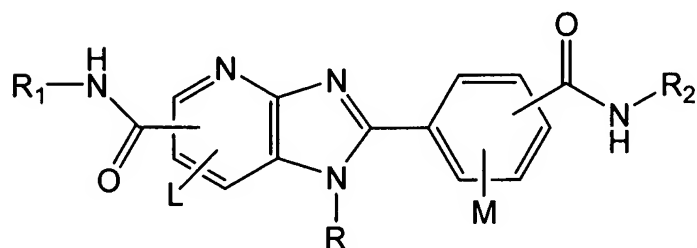




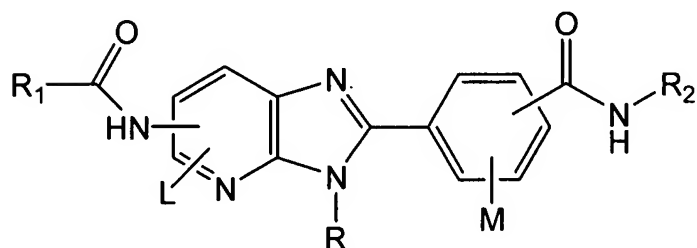
Genus B2;



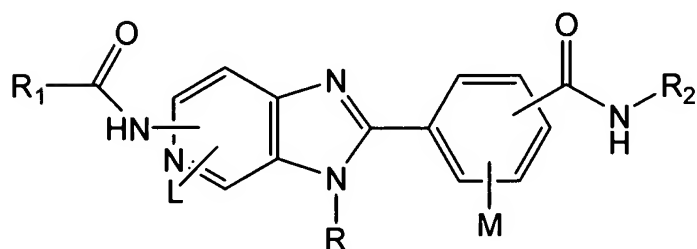
Genus B3;



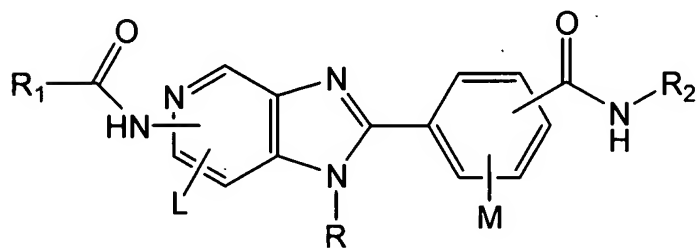
Genus B4;



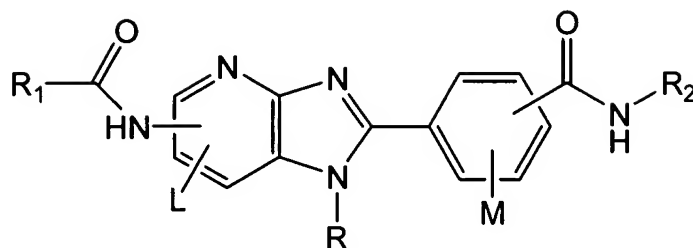
Genus C1;



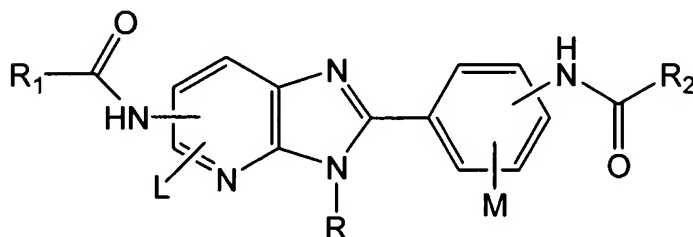
Genus C2;



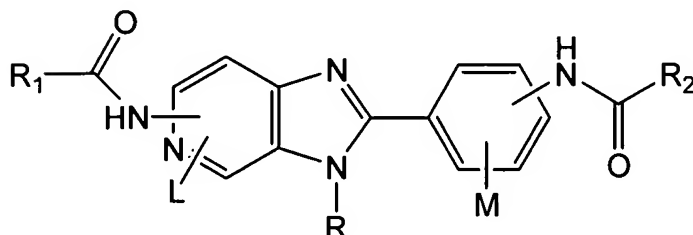
Genus C3;



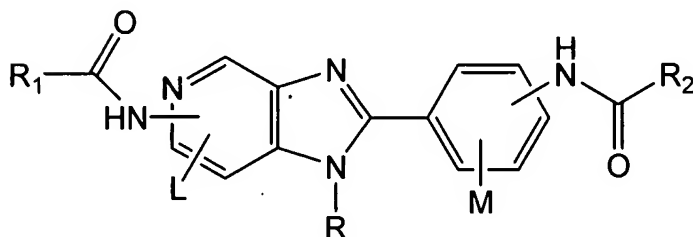
Genus C4;



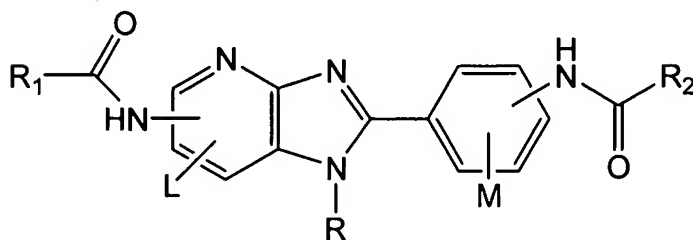
Genus D1;



Genus D2;



Genus D3; and



Genus D4;

wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein A is selected from the group consisting of H and halogen;

wherein n is a number from one to four;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>1</sub>;

wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR' COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

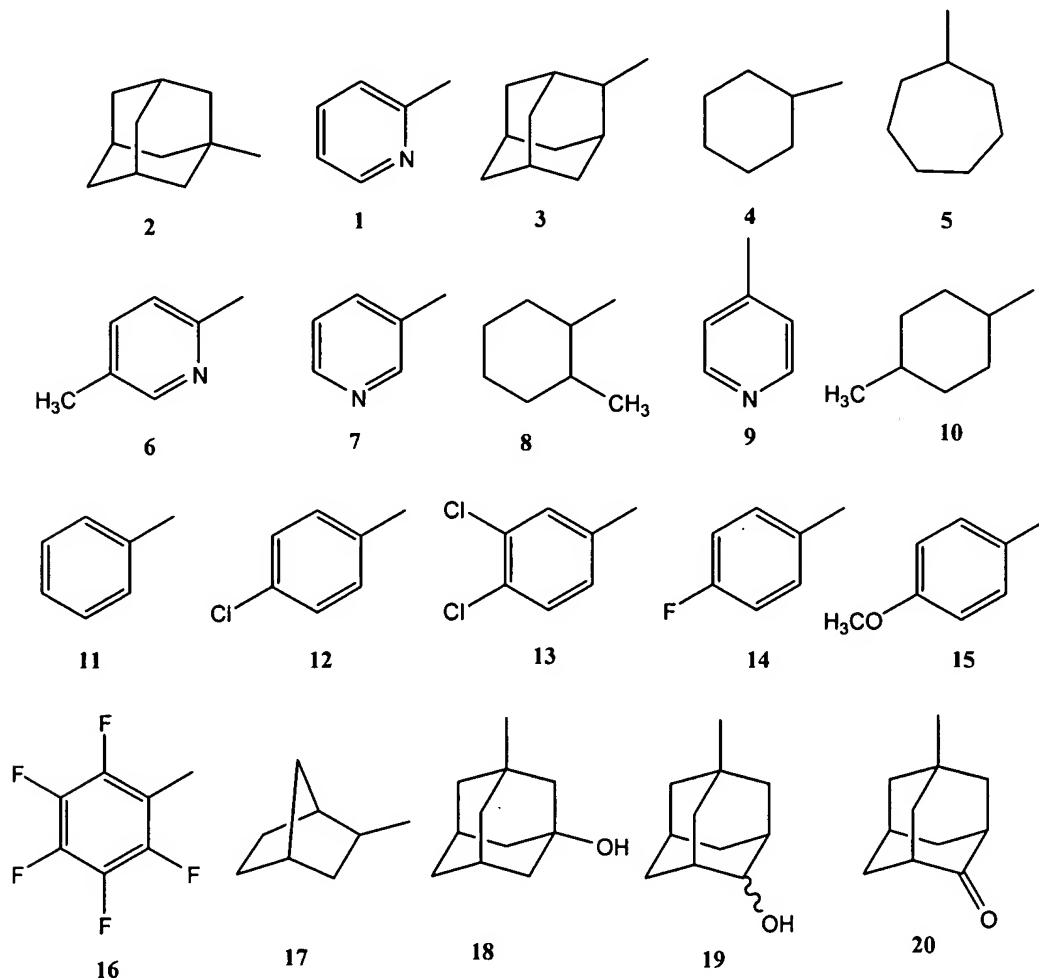
3. (Currently amended) The compound or salt thereof of Claim 1, wherein said polycyclic aliphatic group is selected from the group consisting of adamantyl, bicycloheptyl, camphoryl, bicyclo[2,2,2]octanyl and norbornyl.

4. (Currently amended) The compound or salt thereof of Claim 1, wherein said heteroaryl and said substituted heteroaryl is selected from the group consisting of pyridines, thiazoles, isothiazoles, oxazoles, pyrimidines, pyrazines, furans, thiophenes, isoxazoles, pyrroles, pyridazines, 1,2,3-triazines, 1,2,4-triazines, 1,3,5-triazines, pyrazoles, imidazoles, indoles, quinolines, iso-quinolines, benzothiophenes, benzofurans, parathiazines, pyrans[[,]] and

chromenes, ~~pyrrolidines, pyrazolidines, imidazolidines, morpholines, thiomorpholines, and the corresponding heterocycles.~~

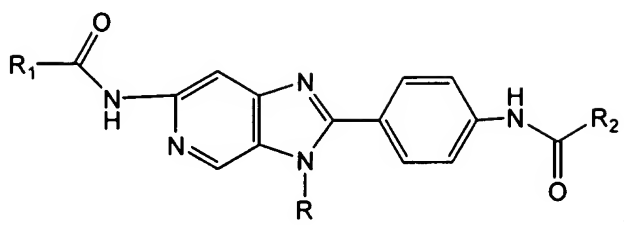
5. (Cancelled)

6. (Currently amended) The compound or salt thereof ~~pharmaceutical composition of~~ Claim 1, wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of:



7. (Currently amended) The ~~pharmaceutical composition~~ compound or salt thereof of Claim 1 ~~comprising a compound~~ selected from the group consisting of compounds S-1 to S-25.

8. (Currently amended) A ~~pharmaceutical composition for treating or preventing an allergic reaction associated with increased IgE levels or inhibiting cellular proliferation in a mammal comprising any~~ compound or salt thereof represented by one or more of the following compounds formula:



wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

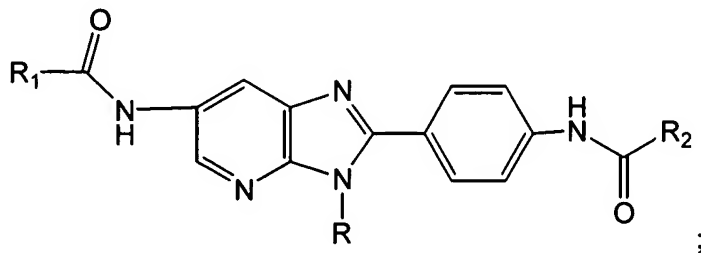
wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

9. (Currently amended) The ~~pharmaceutical composition~~ compound or salt thereof of Claim 8 ~~comprising a compound~~ selected from the group consisting of compounds S-4, S-5, S-6, S-7, S-8, S-11, S-13, S-15 and S-16.

10. (Currently amended) The ~~pharmaceutical composition~~ compound or salt thereof of Claim 9 ~~comprising~~ represented by the compound S-7.



11. (Currently amended) A compound or salt thereof represented by pharmaceutical composition for treating or preventing an allergic reaction associated with increased IgE levels or inhibiting cellular proliferation in a mammal comprising any one or more of the following compoundsformula:



wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

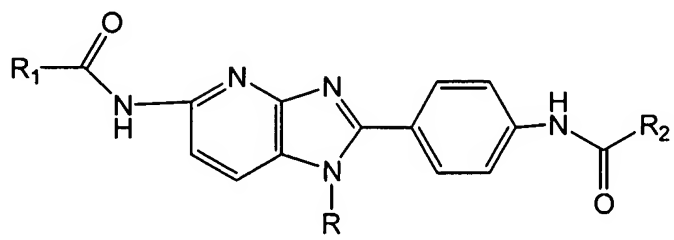
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR' COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

12. (Currently amended) The compound or salt thereof ~~pharmaceutical composition of~~ Claim 11 ~~comprising a compound~~ selected from the group consisting of compounds S-17, S-19, S-20[,], and S-21.

13. (Currently amended) A compound or salt thereof represented by ~~pharmaceutical composition for treating or preventing an allergic reaction associated with increased IgE levels or inhibiting cellular proliferation in a mammal comprising any one or more of the following compounds~~formula:



wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

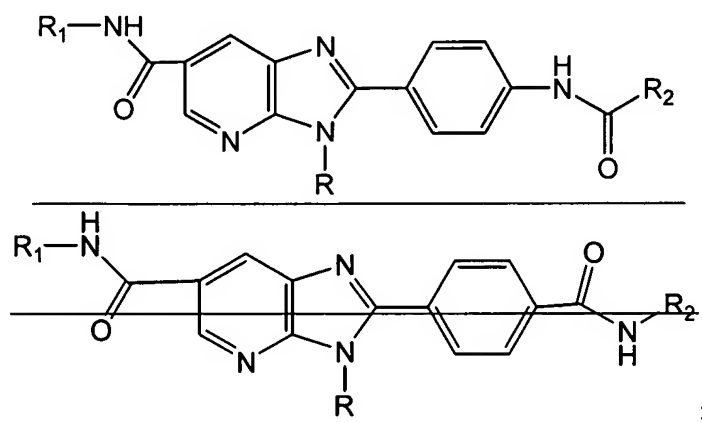
wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl

contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

14. (Currently amended) The compound or salt thereof ~~pharmaceutical composition of~~ Claim 13 ~~comprising represented by the compound S-24.~~

15. (Currently amended) A compound or salt thereof ~~represented by pharmaceutical composition for treating or preventing an allergic reaction associated with increased IgE levels or inhibiting cellular proliferation in a mammal comprising any one or more of the following compounds~~formula:



wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

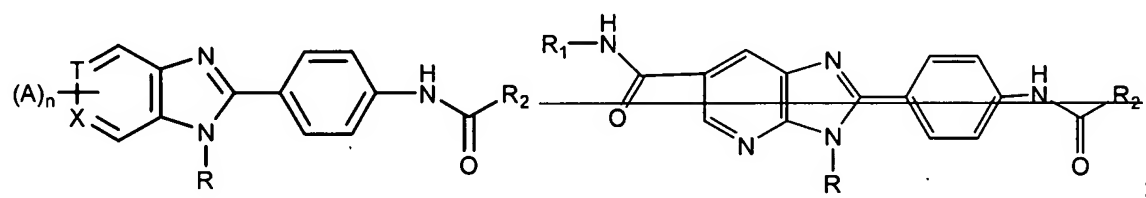
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR' COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

16. (Currently amended) The compound or salt thereof ~~pharmaceutical composition of~~ Claim 15 ~~comprising represented by~~ the compound S-25.

17. (Currently amended) A compound or salt thereof ~~represented by pharmaceutical composition for treating or preventing an allergic reaction associated with increased IgE levels or inhibiting cellular proliferation in a mammal comprising any one or more of the following compounds~~ formula:



wherein T and X are independently selected from N or C, and wherein one of T and X is N;

wherein A is selected from the group consisting of H, halogen, and CONHR<sub>1</sub>;

wherein n is a number from one to four;

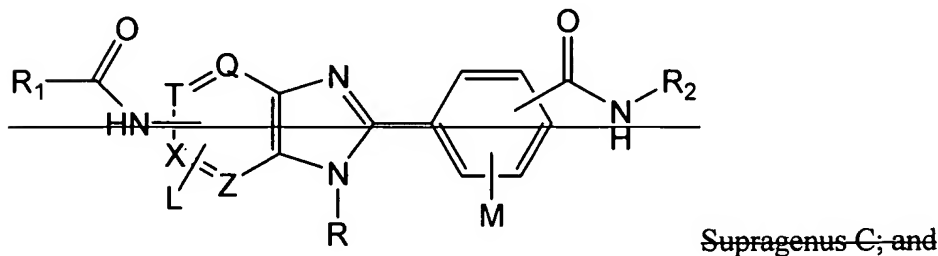
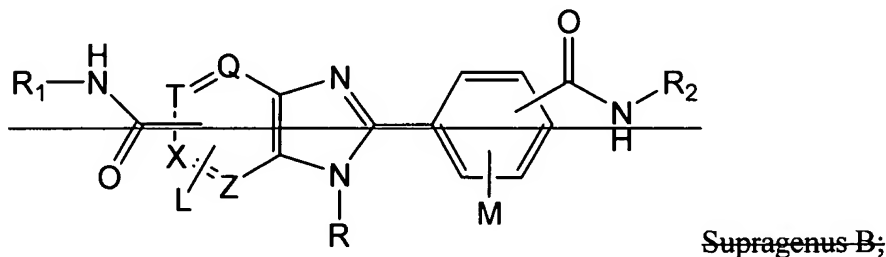
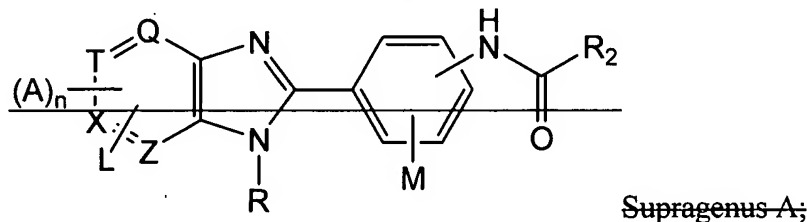
wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

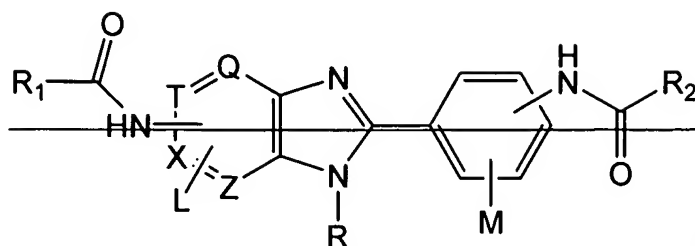
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.

18. (Withdrawn – currently amended) A method for treating or preventing an allergic reaction and/or for inhibiting cytokines or leukocytes in a mammal comprising administering an effective amount of any one or more of the following compounds or salts thereof of Claim 1.[::]





Supragenus D;

wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein A is selected from the group consisting of H, halogen, and CONHR<sub>4</sub>;

wherein n is a number from one to four;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;

wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino-alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and

~~substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.~~

19. (Withdrawn) The method of Claim 18 further comprising administering at least one additional ingredient which is active in reducing at least one symptom associated with said allergic reaction.

20. (Withdrawn) The method of Claim 19, wherein said at least one additional ingredient is selected from the group consisting of a short-acting  $\beta_2$ -adrenergic agonist, a long-acting  $\beta_2$ -adrenergic agonist, an antihistamine, a phosphodiesterase inhibitor, an anticholinergic agent, a corticosteroid, an inflammatory mediator release inhibitor and a leukotriene receptor antagonist.

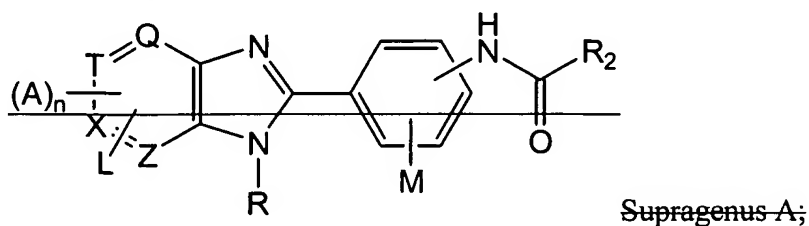
21. (Withdrawn) The method of Claim 19, wherein said at least one additional ingredient is combined with said compound in a pharmaceutically acceptable diluent and co-administered to the mammal.

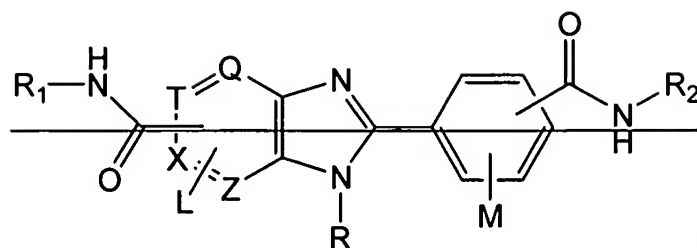
22. (Withdrawn) The method of Claim 18, wherein said compound is administered at a dose of about 0.01 mg to about 100 mg per kg body weight per day.

23. (Withdrawn) The method of Claim 22, wherein said dose is administered in divided doses at regular periodic intervals.

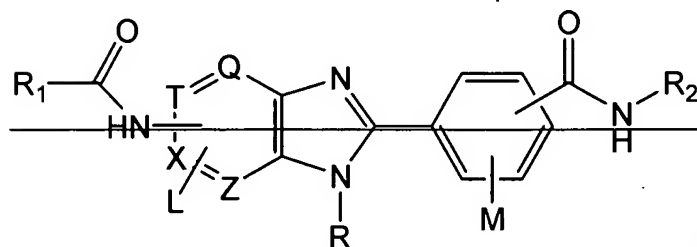
24. (Withdrawn) The method of Claim 23, wherein said regular periodic intervals occur daily.

25. (Withdrawn – currently amended) A method for treating or preventing asthma in a mammal comprising administering an IgE-suppressing amount of any one or more of the ~~following compounds or salt thereof of Claim 1.[:]~~

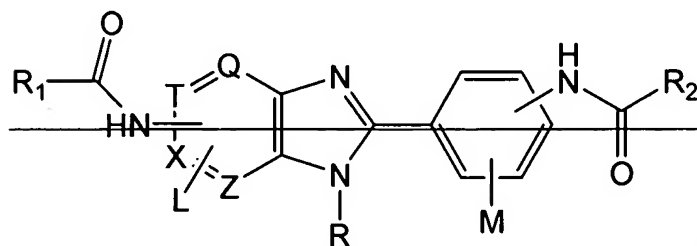




Supragenus B;



Supragenus C; and



Supragenus D;

wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein A is selected from the group consisting of H, halogen, and CONHR<sub>4</sub>;

wherein n is a number from one to four;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;

wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;



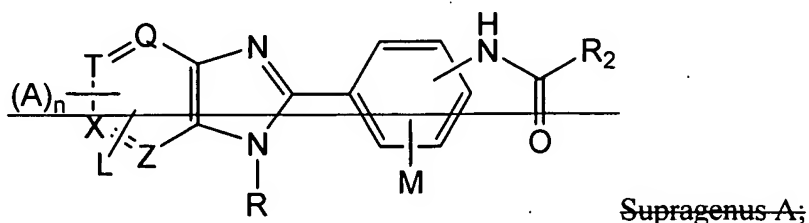
~~wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and~~

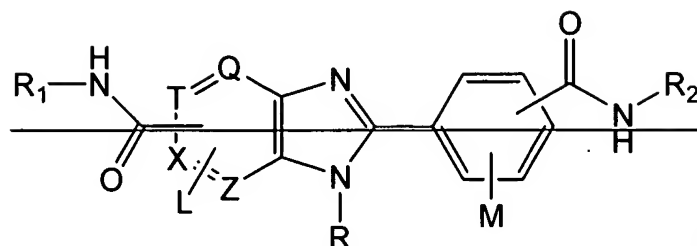
~~wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.~~

26. (Withdrawn) The method of Claim 25 further comprising administering at least one additional ingredient which is active in reducing at least one symptom associated with said asthma.

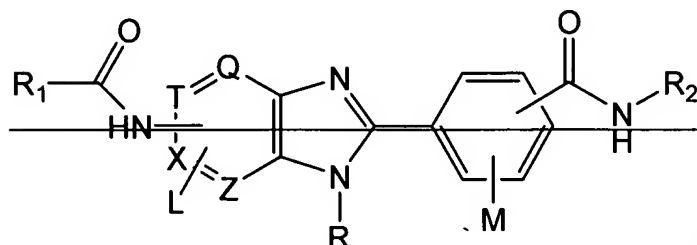
27. (Withdrawn) The method of Claim 26, wherein said additional ingredient is selected from the group consisting of a short-acting  $\beta_2$ -adrenergic agonist, a long-acting  $\beta_2$ -adrenergic agonist, an antihistamine, a phosphodiesterase inhibitor, an anticholinergic agent, a corticosteroid, an inflammatory mediator release inhibitor and a leukotriene receptor antagonist.

28. (Withdrawn – currently amended) A method for inhibiting cellular proliferation in a mammal comprising administering an effective amount of any one or more of the following compounds or salts thereof of Claim 1[[.]]

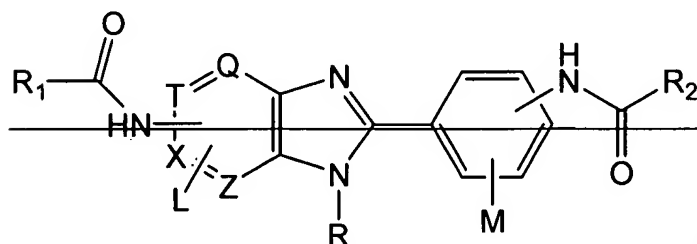




~~Supragenus B;~~



~~Supragenus C; and~~

~~Supragenus D;~~

wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

~~wherein A is selected from the group consisting of H, halogen, and CONHR<sub>4</sub>;~~

~~wherein n is a number from one to four;~~

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>1</sub>;

wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino-alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

~~wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and~~

~~wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur.~~

29. (Withdrawn) The method of Claim 28 further comprising administering at least one additional ingredient which is active in reducing at least one symptom associated with said cellular proliferation.

30. (Withdrawn) The method of Claim 29, wherein said at least one additional ingredient is selected from the group consisting of antifungals, antivirals, antibiotics, anti-inflammatories, and anticancer agents.

31. (Withdrawn) The method of Claim 29, wherein said at least one additional ingredient is selected from the group consisting of alkylating agent, antimetabolite, DNA cutter, topoisomerase I poison, topoisomerase II poison, DNA binder, and spindle poison.

32. (Withdrawn) The method of Claim 29, wherein said at least one additional ingredient is combined with said compound in a pharmaceutically acceptable diluent and co-administered to the mammal.

33. (Withdrawn) The method of Claim 28, wherein said compound is administered at a dose of about 0.01 mg to about 100 mg per kg body weight per day.

34. (Withdrawn) The method of Claim 33, wherein said dose is administered in divided doses at regular periodic intervals.

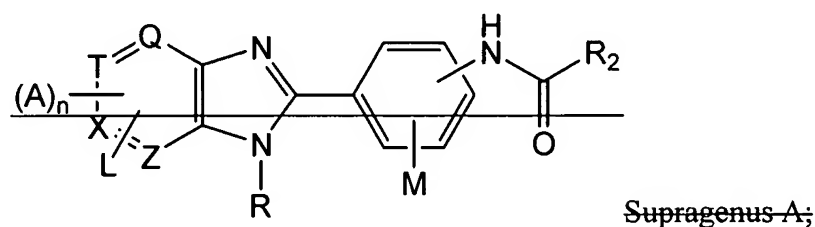
35. (Withdrawn) The method of Claim 34, wherein said regular periodic intervals occur daily.

36. (Withdrawn) The method of Claim 28 further comprising administering at least one other therapy which is effective in ameliorating at least one symptom associated with cellular hyperproliferation.

37. (Withdrawn) The method of Claim 36, wherein said therapy is an anti-cancer therapy.

38. (Withdrawn) The method of Claim 36, wherein said therapy is selected from the group consisting of radiation, immunotherapy, gene therapy, and surgery.

39. (Withdrawn – currently amended) A method of preparing a compound or salt thereof ~~having the formula of~~ Supragenus A as defined in Claim 1 comprising:



~~wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;~~

~~wherein A is selected from the group consisting of H, halogen, and CONHR<sub>4</sub>;~~

~~wherein n is a number from one to four;~~

~~wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;~~

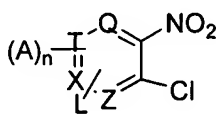
~~wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino-alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;~~

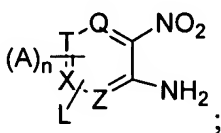
~~wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~

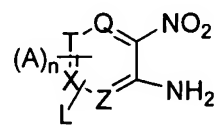
~~wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and~~

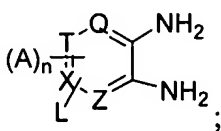
~~wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~

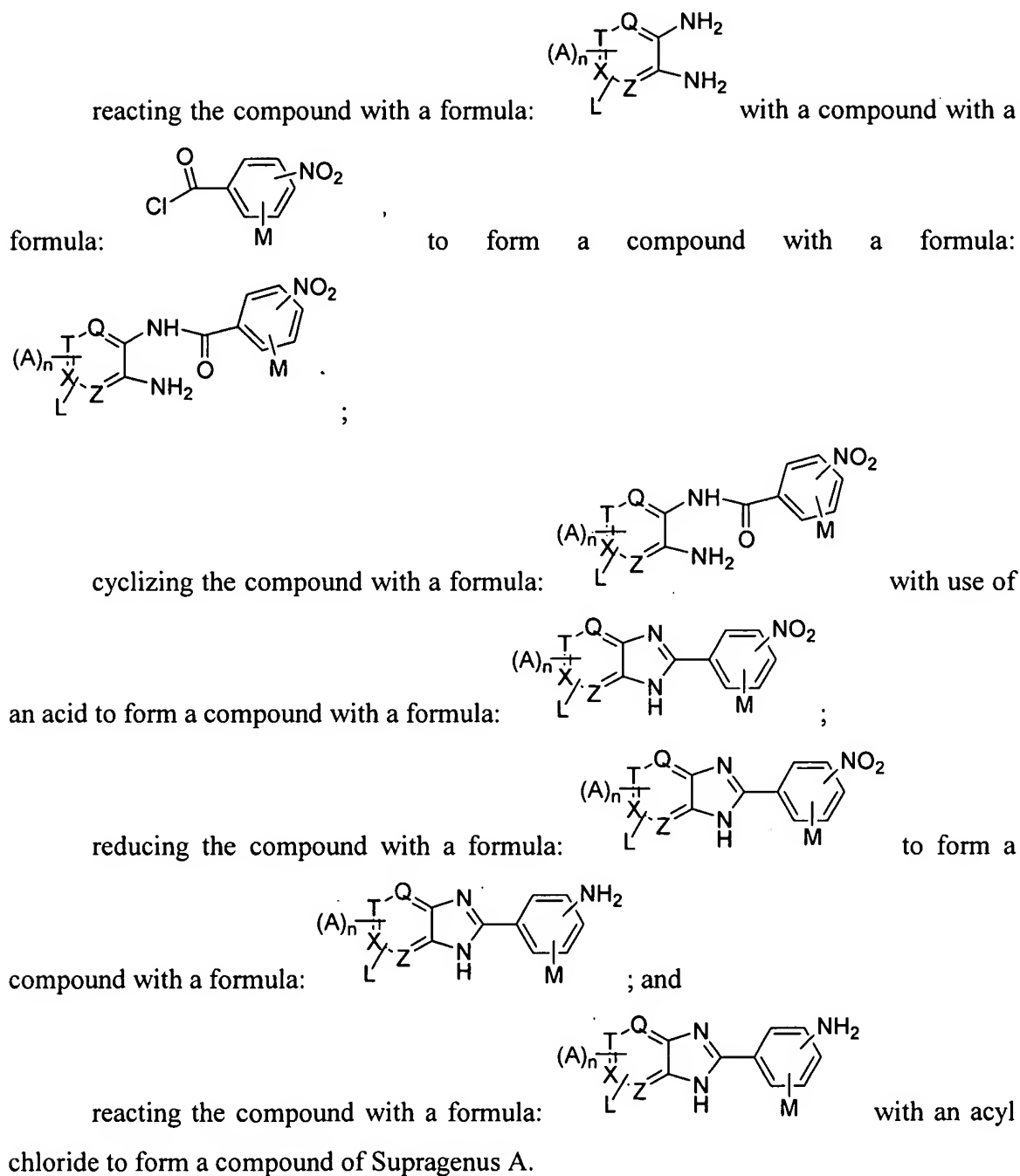
~~wherein said method comprises steps:~~

reacting a compound with a formula:  with ammonium hydroxide

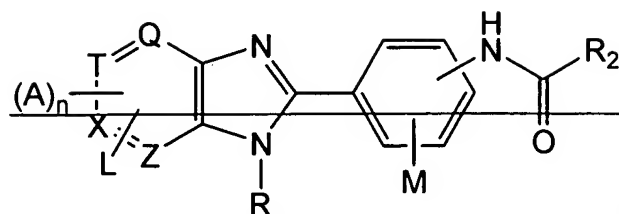
to form a compound with a formula: ;

reacting the compound with a formula:  with diammonium sulfide

to form a compound with a formula: ;



40. (Withdrawn – currently amended) A method of preparing a compound or salt thereof having the formula of Supragenus A as defined in Claim 1 comprising:



Supragenus A;

wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein A is selected from the group consisting of H, halogen, and CONHR<sub>4</sub>;

wherein n is a number from one to four;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;

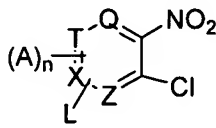
wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

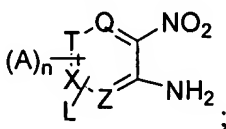
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

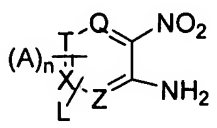
wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

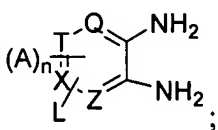
wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl

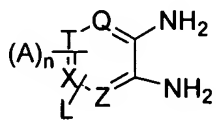
~~contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~  
~~wherein said method comprises steps:~~

reacting a compound with a formula:  with ammonium hydroxide

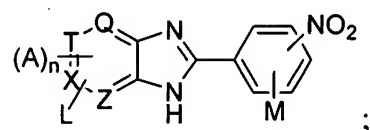
to form a compound with a formula: ;

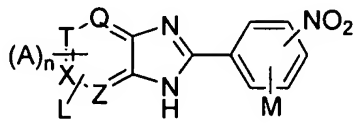
reacting the compound with a formula:  with diammonium sulfide

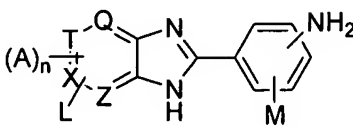
to form a compound with a formula: ;

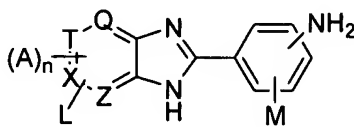
reacting the compound with a formula:  with a compound with a

formula:  to form a compound with a formula:

;

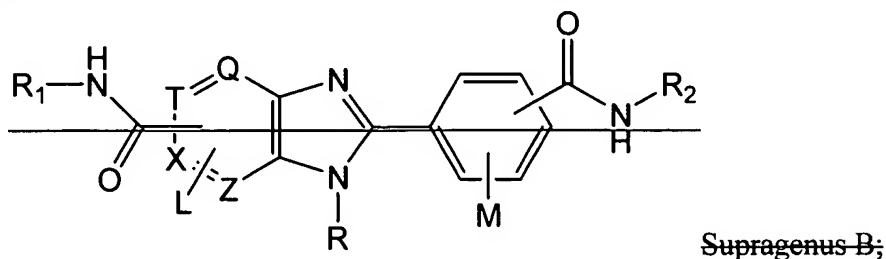
reducing the compound with a formula:  to form a

compound with a formula: ; and

reacting the compound with a formula:  with an acyl chloride to form a compound of Supragenus A.



41. (Withdrawn – currently amended) A method of preparing a compound or salt thereof ~~having the formula of~~ Supragenus B as defined in Claim 1 comprising:



~~wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;~~

~~wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;~~

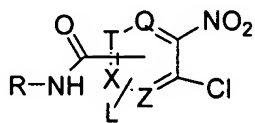
~~wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino-alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;~~

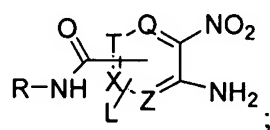
~~wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~

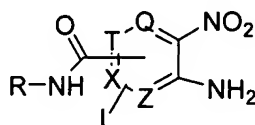
~~wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR' COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and~~

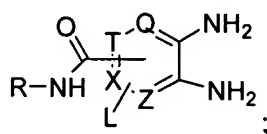
~~wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatics,~~

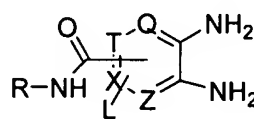
~~phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur; wherein said method comprises steps:~~

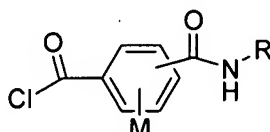
reacting a compound with a formula:  with ammonium

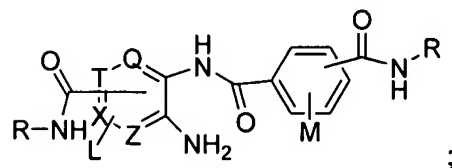
hydroxide to form a compound with a formula: ;

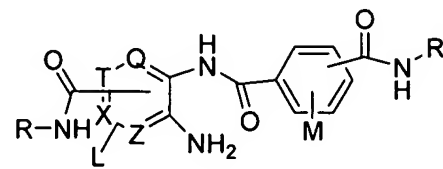
reacting the compound with a formula:  with diammonium

sulfide to form a compound with a formula: ;

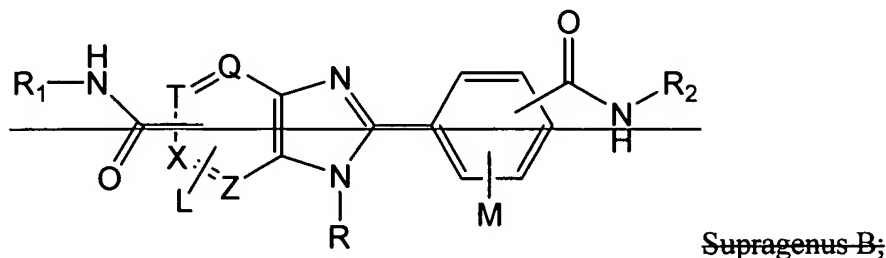
reacting the compound with a formula:  with a compound with

a formula:  to form a compound with a formula:



cyclizing the compound with a formula:  to form to form a compound of Supragenus B.

42. (Withdrawn – currently amended) A method of preparing a compound or salt thereof having the formula of Supragenus B as defined in Claim 1 comprising:



wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>1</sub>;

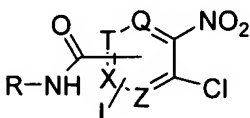
wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino-alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

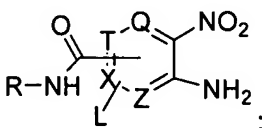
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

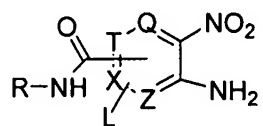
wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

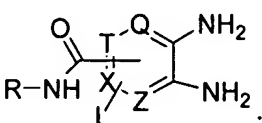
wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and

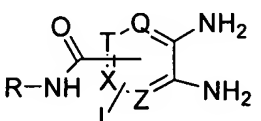
~~substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur; wherein said method comprises steps:~~

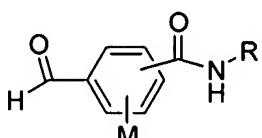
reacting a compound with a formula:  with ammonium

hydroxide to form a compound with a formula: ;

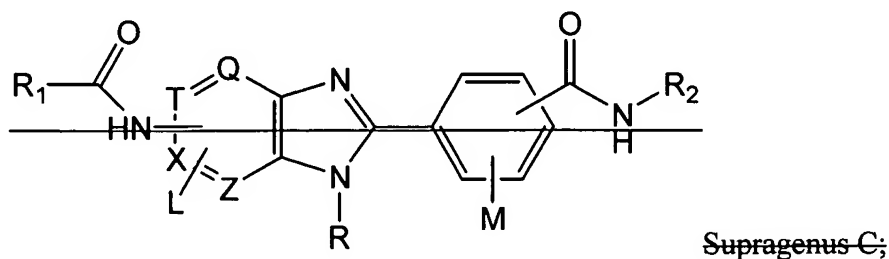
reacting the compound with a formula:  with diammonium

sulfide to form a compound with a formula: ;

reacting the compound with a formula:  with a compound with

a formula:  to form to form a compound of Supragenus B.

43. (Withdrawn – currently amended) A method of preparing a compound or salt thereof ~~having the formula~~ of Supragenus C as defined in Claim 1 comprising:



~~wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;~~

~~wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>1</sub>;~~

~~wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino-alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;~~

~~wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~

~~wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and~~

~~wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~

~~wherein said method comprises steps:~~

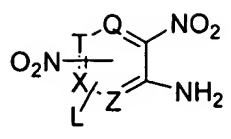
reacting a compound with a formula:

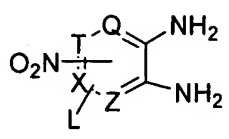
$$\begin{array}{c} \text{O}_2\text{N} \text{---} \text{T} \text{---} \text{Q} \\ | \quad \quad \quad \diagup \\ \text{X} \quad \quad \quad \text{C} \text{---} \text{NO}_2 \\ | \quad \quad \quad \diagdown \\ \text{L} \quad \quad \quad \text{Z} \text{---} \text{Cl} \end{array}$$

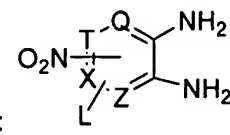
with ammonium hydroxide

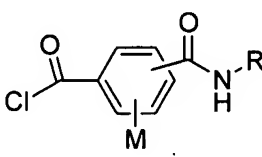
to form a compound with a formula:

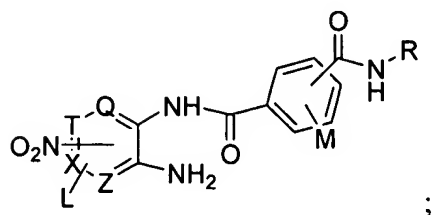
$$\begin{array}{c} \text{O}_2\text{N} \text{---} \text{T} \text{---} \text{Q} \\ | \quad \quad \quad \diagup \\ \text{X} \quad \quad \quad \text{C} \text{---} \text{NO}_2 \\ | \quad \quad \quad \diagdown \\ \text{L} \quad \quad \quad \text{Z} \text{---} \text{NH}_2 \end{array};$$

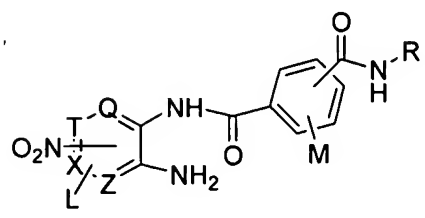
reacting the compound with a formula:  with diammonium

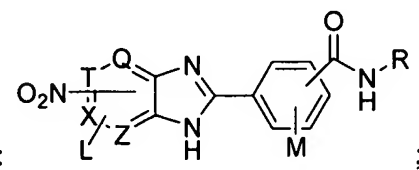
sulfide to form a compound with a formula:  ;

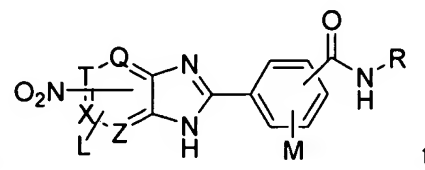
reacting the compound with a formula:  with a compound with a

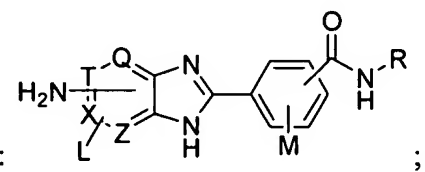
formula:  to form a compound with a formula:



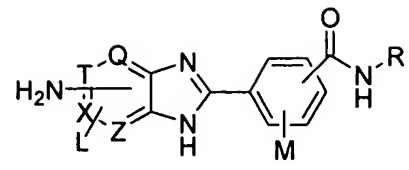
cyclizing the compound with a formula:  with use

of an acid to form a compound with a formula:  ;

reducing the compound with a formula:  to form a

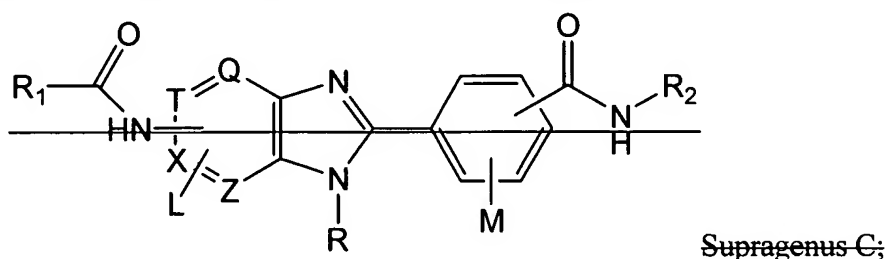
compound with a formula:  ; and

reacting the compound with a formula:



with an acyl chloride to form a compound of Supragenus C.

44. (Withdrawn – currently amended) A method of preparing a compound or salt thereof having the formula of Supragenus C as defined in Claim 1 comprising:



wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;

wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub>-alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub>-alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

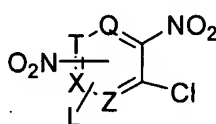
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub>-cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

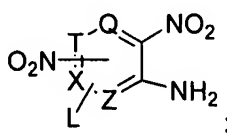
wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl,

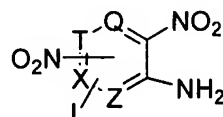
~~dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR',  
 CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and~~

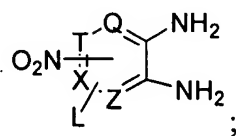
~~wherein R' is selected from the group consisting of H, alkyl, substituted  
 alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics,  
 phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and  
 substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl  
 contain 1-3 heteroatoms, wherein said heteroatom is independently selected from  
 the group consisting of nitrogen, oxygen and sulfur;~~

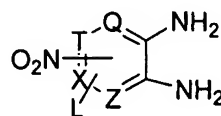
~~wherein said method comprises steps:~~

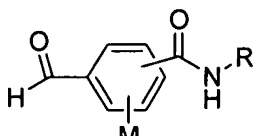
reacting a compound with a formula:  with ammonium hydroxide

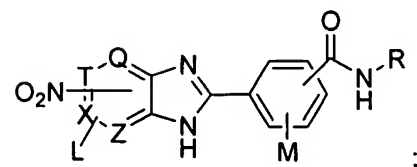
to form a compound with a formula: ;

reacting the compound with a formula:  with diammonium

sulfide to form a compound with a formula: ;

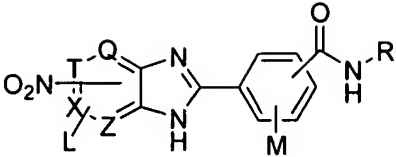
reacting the compound with a formula:  with a compound with a

formula:  to form a compound with a formula:

;

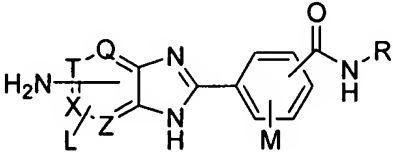


reducing the compound with a formula:



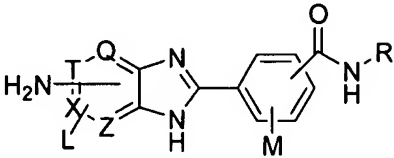
to form a

compound with a formula:



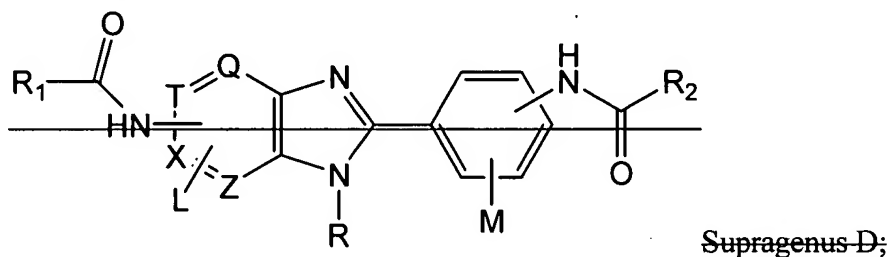
; and

reacting the compound with a formula:



with an acyl chloride to form a compound of Supragenus C.

45. (Withdrawn – currently amended) A method of preparing a compound or salt thereof having the formula of Supragenus D as defined in Claim 1 comprising:



wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;

wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said

~~substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~

~~wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and~~

~~wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;~~

~~wherein said method comprises steps:~~

reacting a compound with a formula:

$$\begin{array}{c} \text{O}_2\text{N}-\text{T}-\text{Q} \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{X} \quad \quad \quad \text{Z} \quad \quad \quad \text{NO}_2 \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{L} \quad \quad \quad \text{Z} \quad \quad \quad \text{Cl} \end{array}$$

with ammonium hydroxide

to form a compound with a formula:

$$\begin{array}{c} \text{O}_2\text{N}-\text{T}-\text{Q} \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{X} \quad \quad \quad \text{Z} \quad \quad \quad \text{NO}_2 \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{L} \quad \quad \quad \text{Z} \quad \quad \quad \text{NH}_2 \end{array};$$

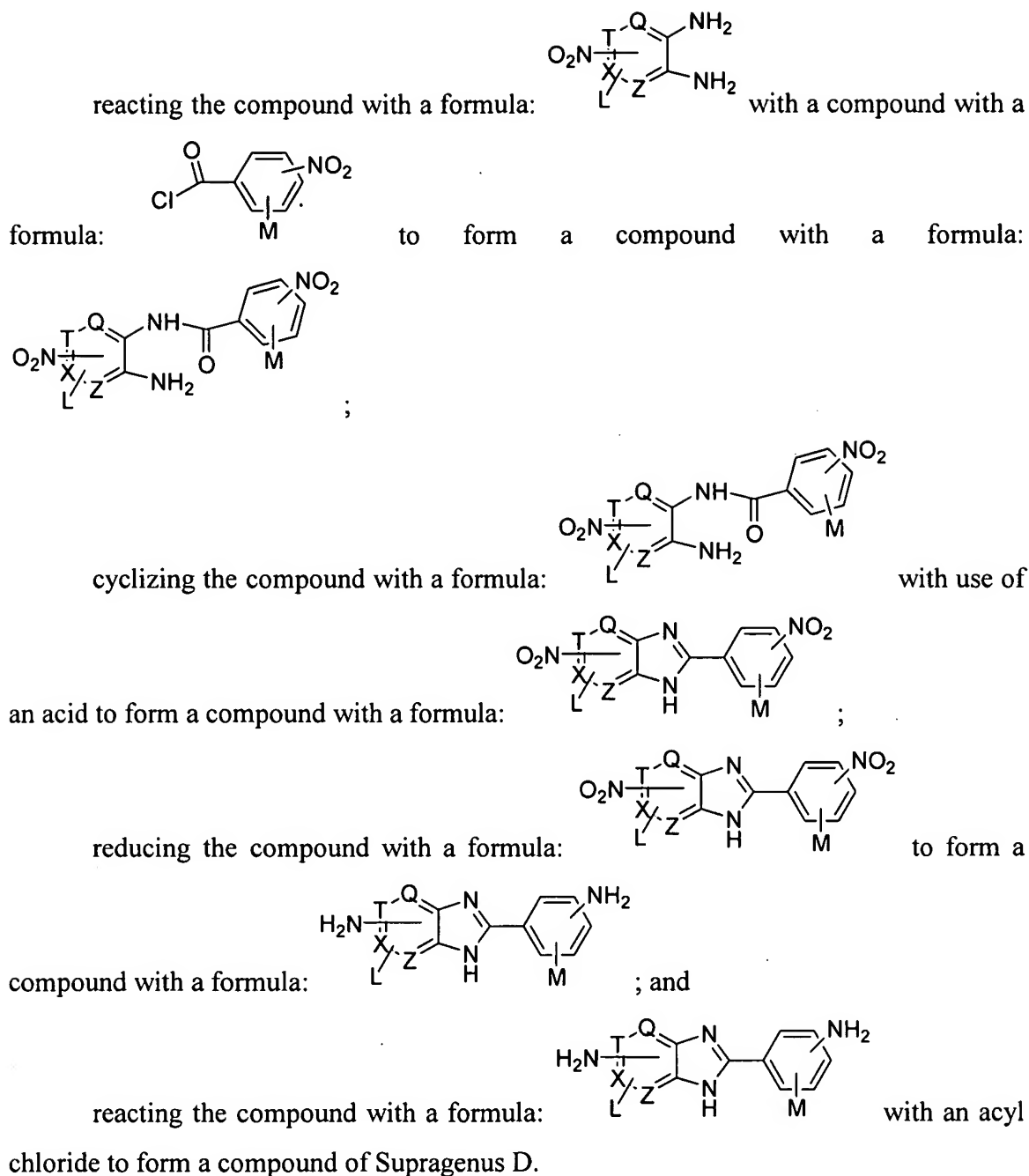
reacting the compound with a formula:

$$\begin{array}{c} \text{O}_2\text{N}-\text{T}-\text{Q} \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{X} \quad \quad \quad \text{Z} \quad \quad \quad \text{NO}_2 \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{L} \quad \quad \quad \text{Z} \quad \quad \quad \text{NH}_2 \end{array}$$

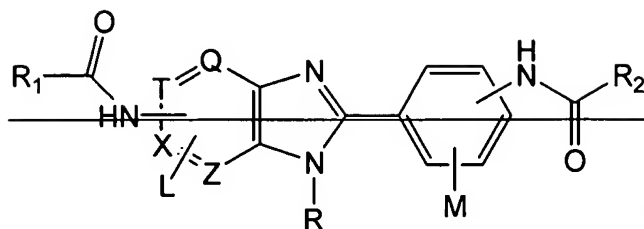
with diammonium

sulfide to form a compound with a formula:

$$\begin{array}{c} \text{O}_2\text{N}-\text{T}-\text{Q} \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{X} \quad \quad \quad \text{Z} \quad \quad \quad \text{NH}_2 \\ | \quad \quad \quad \diagup \quad \quad \quad \diagdown \\ \text{L} \quad \quad \quad \text{Z} \quad \quad \quad \text{NH}_2 \end{array};$$



46. (Withdrawn – currently amended) A method of preparing a compound or salt thereof ~~having the formula~~ of Supragenus D as defined in Claim 1 comprising:



Supragenus D;

wherein Q, T, X, and Z are independently selected from N or C, and wherein one of Q, T, X, and Z is N;

wherein L and M are independently selected from the group consisting of H, alkyl, alkoxy, aryl, substituted aryl, hydroxy, halogen, amino, alkylamino, nitro, cyano, CF<sub>3</sub>, OCF<sub>3</sub>, CONH<sub>2</sub>, CONHR and NHCOR<sub>4</sub>;

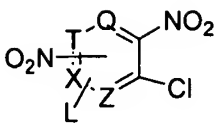
wherein R is selected from the group consisting of H, C<sub>1</sub>-C<sub>5</sub> alkyl, benzyl, p-fluorobenzyl and di-alkylamino alkyl, wherein said C<sub>1</sub>-C<sub>5</sub> alkyl is selected from the group consisting of a straight chain, branched or cyclic alkyl;

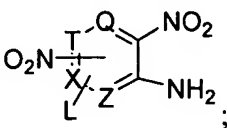
wherein R<sub>1</sub> and R<sub>2</sub> are independently selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatic groups, substituted polycyclic aliphatic groups, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

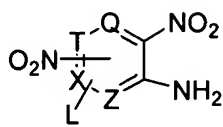
wherein said substituted polycyclic aliphatic groups, substituted phenyl, substituted naphthyl and substituted heteroaryl contain 1-3 substituents, wherein said substituent is selected from the group consisting of H, halogens, polyhalogens, alkoxy group, substituted alkoxy, alkyl, substituted alkyl, dialkylaminoalkyl, hydroxyalkyl, carbonyl, OH, OCH<sub>3</sub>, COOH, COOR', COR', CN, CF<sub>3</sub>, OCF<sub>3</sub>, NO<sub>2</sub>, NR'R', NHCOR' and CONR'R'; and

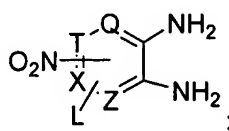
wherein R' is selected from the group consisting of H, alkyl, substituted alkyl, C<sub>3</sub>-C<sub>9</sub> cycloalkyl, substituted C<sub>3</sub>-C<sub>9</sub> cycloalkyl, polycyclic aliphatics, phenyl, substituted phenyl, naphthyl, substituted naphthyl, heteroaryl and substituted heteroaryl, wherein said heteroaryl and said substituted heteroaryl contain 1-3 heteroatoms, wherein said heteroatom is independently selected from the group consisting of nitrogen, oxygen and sulfur;

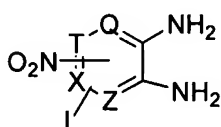
~~wherein said method comprises steps:~~

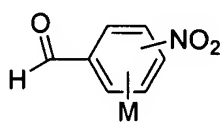
reacting a compound with a formula:  with ammonium hydroxide

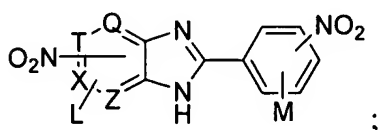
to form a compound with a formula: ;

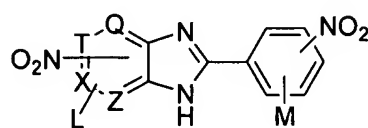
reacting the compound with a formula:  with diammonium

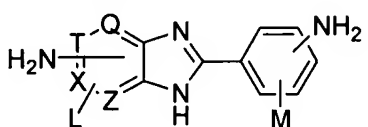
sulfide to form a compound with a formula: ;

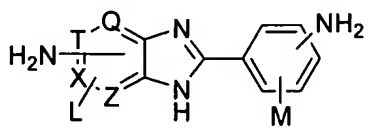
reacting the compound with a formula:  with a compound with a

formula:  to form a compound with a formula:



reducing the compound with a formula:  to form a

compound with a formula: ; and

reacting the compound with a formula:  with an acyl chloride to form a compound of Supragenus D.

Appl. No. : 10/661,296  
Filed : September 12, 2003

47. (New) A pharmaceutical composition for treating or preventing an allergic reaction associated with increased IgE levels or inhibiting cellular proliferation in a mammal comprising any one or more of the compounds or salts thereof of Claim 1.

48. (New) The pharmaceutical composition of Claim 47, further comprising at least one additional ingredient which is active in reducing at least one symptom associated with said allergic reaction and/or cell proliferation.

49. (New) A compound or salt thereof represented by the following formula:

